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C16-1R718

DIRECTIONAL COUPLER

DEVICE OVERVIEW

General Description

The C16-1R718 is a broadband 1.7-18 GHz, 16 dB directional coupler. The multisection tri-plate stripline design exhibits excellent coupling flatness and VSWR at all ports. Conductively coated package is highly effective in minimizing EMI/RFI. Custom designs are also available; contact the factory for details.

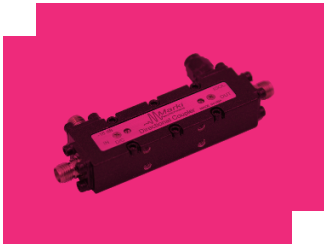
[Download s-parameters here](#)

Features

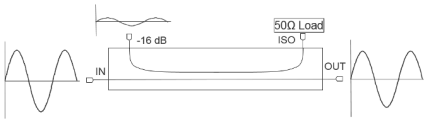
- Broadband Performance
- Excellent Coupling Flatness
- High Directivity
- Low VSWR
- EMI/RFI Shielded

Applications

N/A



Functional Block Diagram



Directional Coupler

Part Ordering Options

Part Number	Description	Package	Packing Size	Green Status	Product Lifecycle	Export Classification
C16-1R718	DIRECTIONAL COUPLER	-	-	RoHS	Released	EAR99

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Specifications

Absolute Maximum Ratings

Parameter	Maximum Rating	Unit
RF Power Handling	50	W

Package Information

Parameter	Details	Rating
Weight	-	55g
Dimensions	-	68.62 x 17.53 mm

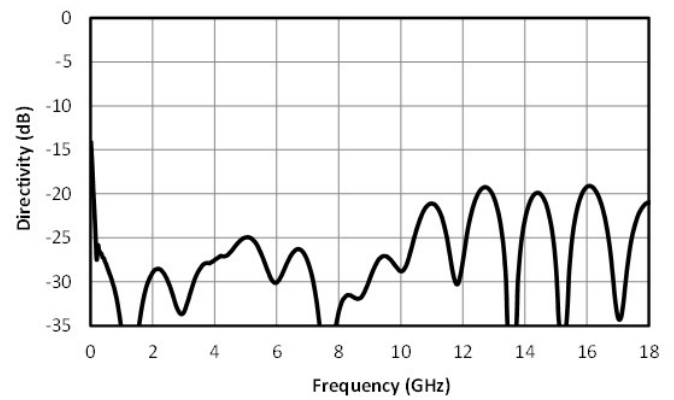
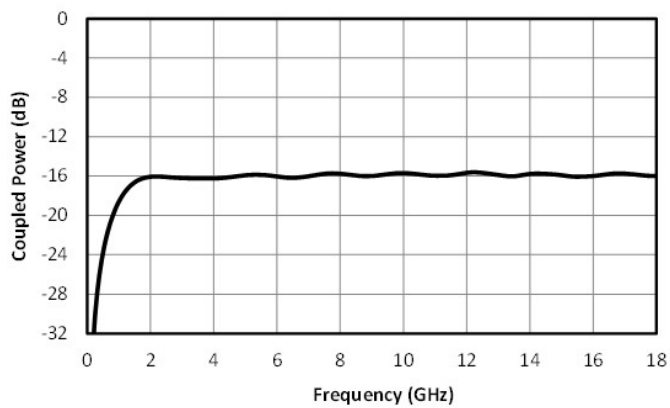
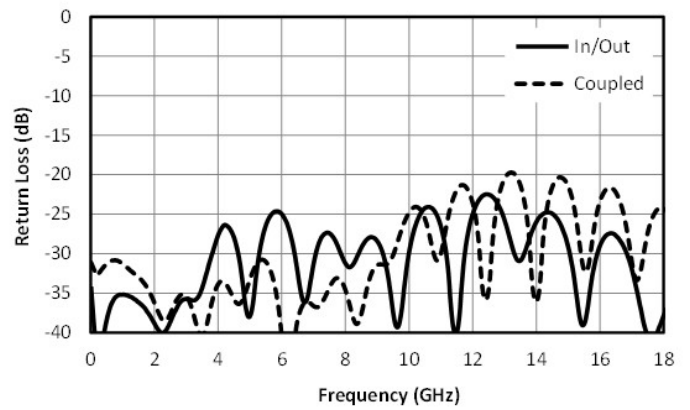
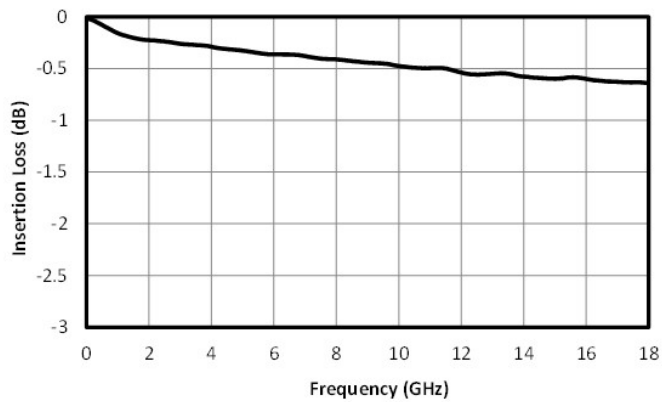
Electrical Specifications

Specifications guaranteed when operated in a 50Ω system.

Parameter	Test Conditions	Minimum Frequency (GHz)	Maximum Frequency (GHz)	Min	Typ	Max	Unit
Mean Coupling	-	1.7	18	-	16	-	dB
Direct Line Insertion Loss	-	1.7	18	-	-	1	dB
Amplitude Flatness ₁	-	1.7	18	-	0.3	0.7	dB
Directivity	-	1.7	18	15	20	-	dB
VSWR (Coupled)	-	1.7	18	-	1.2	1.45	-
VSWR (In/Out)	-	1.7	18	-	1.15	1.4	-
Weight	-	1.7	18	-	55	-	g

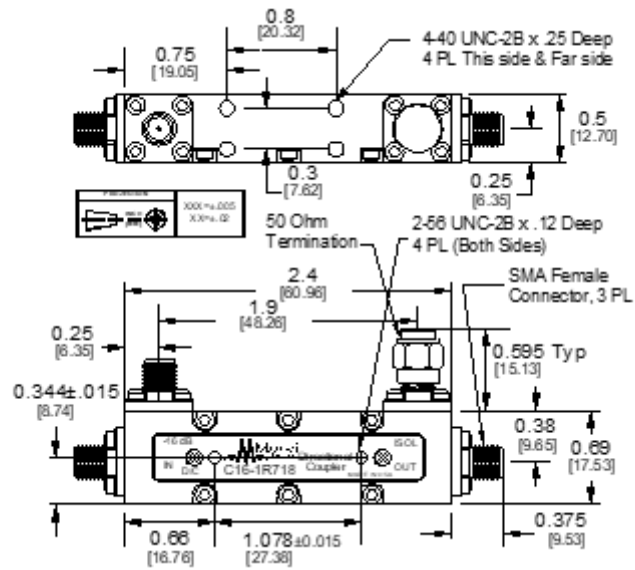
^[1] Deviation from average coupling.

Typical Performance Plots



Mechanical Data

Outline Drawing



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